SHARP

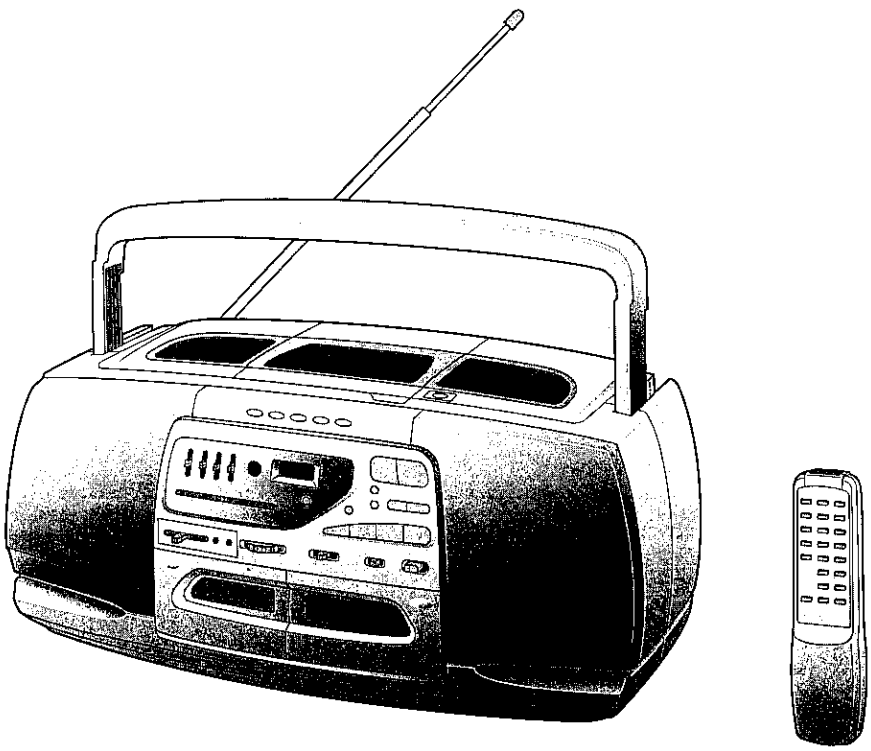
STEREO-RADIORECORDER MIT COMPACT DISC PLAYER
RADIO-CASSETTE STÉRÉO AVEC LECTEUR DE DISQUE COMPACT
RADIOCASSETTE ESTÉREO CON REPRODUCTOR DE COMPACT DISC
STEREORADIOKASSETTBANDSPELARE MED COMPACT DISC-SPELARE
RADIOREGISTRATORE A CASSETTE STEREO CON LETTORE CD
STEREO RADIO/CASSETTERECORDER MET CD-SPELER
STEREO RADIO CASSETTE RECORDER WITH COMPACT DISC PLAYER

MODELL MODELLO
MODÈLE MODEL
MODELO MODEL
MODELL

WQ-CH900H
WQ-CH950H

COMPACT disc DIGITAL AUDIO

BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE MANEJO
BRUKSANVISNING
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
OPERATION MANUAL



Hinweis:
- Die in dieser Bedienungsanleitung gedruckten Illustrationen sind für das Modell WQ-CH950H.

Note:
- Les illustrations imprimées dans ce manuel sont pour le modèle WQ-CH950H.

Nota:
- Las ilustraciones que están impresas en este Manual de Manejo toman el modelo WQ-CH950H por ejemplo.

Anmärkning:
- Illustrationerna i denna bruksanvisning är för modell WQ-CH950H.

Nota:
- Le illustrazioni stampate su questo manuale sono del modello WQ-CH950H.

Opmerking:
- De afbeeldingen in deze gebruiksaanwijzing zijn gebaseerd op model WQ-CH950H.

Note:
- The illustrations printed in this Operation Manual are for the model WQ-CH950H.

DEUTSCH
FRANÇAIS
ESPAÑOL
SVENSKA
ITALIANO
NEDERLANDS
ENGLISH

BESONDERE ANMERKUNGEN
REMARQUES SPÉCIALES
NOTAS ESPECIALES
SÄRSKILDA ANMÄRKNINGAR
NOTE PARTICOLARI
BIJZONDERE OPMERKINGEN
SPECIAL NOTES

- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.
- Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.
- Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.
- Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.
- Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.
- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.
- Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.
- Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.
- Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.
- Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.
- Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

- **Vorsicht:**
  Das Gerät weder Tropf- noch Spritzwasser aussetzen. Ansonsten besteht die Gefahr eines Brandes oder elektrischen Schlages.
- **Attention:**
  Ne pas exposer ce matériel aux éclaboussures et aux projections d'eau, qui pourraient provoquer le feu ou l'électrocution.
- **Advertencia:**
  Para prevenir incendio o sacudidas eléctricas, no exponga este aparato a gotas o salpicaduras.
- **Varning:**
  För att förhindra brand eller elektrtisk stöt, så skydda apparaten mot fukt och väta.
- **Adversel:**
  Til at forbygge ild og stød risiko, lad være med at undsætte denne indretning for drypning eller overstænkning.
- **Adversel:**
  For å unngå brann eller kortslutning, ulsett ikke produktet for varn oller fuktighet.
- **Varoitus:**
  Älä vie laitetta sateeseen tai kosteisiin tiloihin. Jos laite on kostunut, anna sen kuivua ennen kuin käytät sitä verkkovirralla.
- **Attenzione:**
  Onde prevenire incendi o scosse elettriche, non esponete questo apparecchio a fonti di umidita' o all' acqua.
- **Waarschuwing:**
  Om brand of een gevaarlijk elektrische schok te voorkomen, stel dit toestel niet bloot aan spatten en vochtdruppels.
- **Warning:**
  To prevent fire or shock hazard, do not expose this appliance to dripping or splashing.

- Audio-visuelles Material kann Urheberrechte umfassen, die ohne Genehmigung des Eigentümers dieser Urheberrechte nicht aufgenommen werden dürfen. Siehe die entsprechenden nationalen Gesetze.

- Le matériel audio-visuel peut comporter des oeuvres faisant l'objet de droits d'auteur qui ne peuvent être enregistrées sans l'autorisation du possesseur du droit d'auteur, veuillez vous référer aux réglementations nationales en vigueur.

- El material audiovisual puede consistir en trabajos que tengan derechos de autor y que no deben grabarse sin la autorización del poseedor de dichos derechos de autor. Sírvase consultar las leyes aplicables en su país.

- Audiovisuellt material kan innehålla upphovsrättsarbete som inte skall mångfaldigas utan tillstånd av copyrightinnehavaren. Se den tillämpliga lagen i ditt land.

- Il materiale audio-visivo che fosse soggetto a copyright non può essere registrato senza l'autorizzazione del possessore del copyright. Si prega di attenersi alle leggi in vigore sul territorio nazionale.

- Audio-visueel materiaal kan worden beschermd door auteursrechten, in welk geval het niet mag worden opgenomen zonder de toestemming van de auteursrechthouder. Zie voor nadere informatie de betreffende wetten in het land van gebruik.

- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant law in your country.

- Die Buchstaben in den in der Modellnummer enthaltenen Klammern zeigen nur die Farbe des Produktes an. Die Bedienungsschritte und die technischen Daten sind unbeeinflußt.

- Les lettres mises en parenthèses du numéro de modèle indiquent la couleur du produit concerné. Le fonctionnement et les caractéristiques ne varient pas selon la couleur du modèle.

- Las letras entre corchetes contenidas en el número del modelo indican el color del producto solamente. El funcionamiento y las especificaciones no quedan afectados.

- Bokstäver inom parantes i modellnummert anger endast produktfärg. Funktioner och tekniska data påverkas inte.

- Le lettere tra parentesi contenute nel numero del modello indicano soltanto il colore del prodotto. Il funzionamento e le caratteristiche non subiscono mutamenti.

- De in het modelnummer opgenomen letters tussen haakjes geven alleen de kleur van het toestel aan, en hebben op geen enkele wijze betrekking op de werking en technische gegevens van het apparaat.

- The letters in brackets contained in the model number indicate the colour of the product only. Operation and specifications are unaffected.

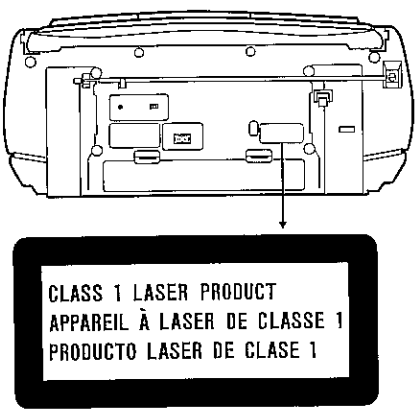
- **Vorsicht:**
  Dieses Produkt enthält ein Niederleistungslaserapparat. Um andauernde Sicherheit zu sichern, niemals die Abdeckung entfernen oder versuchen, die Innenseite des Produktes zu berühren.
  Wenden Sie sich für alle Wartungsarbeiten an berechtigten Fachhändler.

- **Attention:**
  Ce produit contient un dispositif émettant un laser à faible puissance. Pour assurer la sécurité, ne pas enlever le couvercle ni accéder à l'intérieur du produit. Pour toute réparation, s'adresser à une personne qualifiée.

- **Atención:**
  Este producto contiene un dispositivo láser de baja potencia. Para asegurar la seguridad continua, no extraiga la cubierta ni acceda al interior del producto. Para todas las operaciones de reparación, consulte a una persona cualificada.

- **Let op:**
  Dit toestel bevat een zwakke lasereenheid. Uit veiligheidsoverwegingen mag de gebruiker zelf daarom nooit afdekkingen of een gedeelte van de behuizing verwijderen.
  Laat alle onderhouds- en reparatiewerkzaamheden over aan een bevoegde vakman.

- **Caution:**
  This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.



LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

- Bei Einstellung des POWER-Schalters auf STAND-BY ist die Netzspannung immer noch im Gerät vorhanden.

Warnung:
In diesem Gerät sind keine vom Benutzer wartbaren Teile vorhanden. Niemals Abdeckungen entfernen, außer wenn Sie dafür qualifiziert sind. In diesem Gerät sind gefährliche Spannungen vorhanden. Vor Ausführung von irgendwelchen Kundendienstarbeiten oder bei längerer Nichtverwendung des Gerätes stets den Netzstecker aus der Netzsteckdose ziehen.

- Lorsque le commutateur POWER est réglé à la position STAND-BY, l'appareil est toujours sous tension.

Avertissement:
Cet appareil contient des pièces non réparables par l'utilisateur. Personne non qualifiée n'enlèvera jamais les couvercles. L'appareil contenant des organes portés à haute tension, débrancher l'appareil avant toute réparation ou en période de non-utilisation.

- Cuando el interruptor POWER está puesto en la posición STAND-BY, todavía hay tensión dentro del aparato.

Advertencia:
Tenga en cuenta que dentro de este aparato no hay piezas que pueda reparar. No quite nunca las tapas a menos que se esté cualificado para hacerlo. Este aparato tiene en su interior tensiones peligrosas. Desenchufe siempre la clavija de la red del tomacorriente antes de realizar cualquier servicio de mantenimiento y cuando no se use el aparato durante un largo período de tiempo.

- När POWER-omkopplaren är i läge STAND-BY, finns nätspänning i apparaten.

Varning:
Apparaten innehåller inga delar som kan åtgärdas av kunden. Höljet får endast öppnas av kvalificerad personal. Apparaten innehåller farliga spänningar. Stickkontakten ska därför dras ut från nätuttaget före reparationsarbeten och bör dras ut om apparaten inte ska användas på mycket länge.

- Når POWER-kontakten er sat på STAND-BY positionen, er der stadig netspænding tilstede i apparatet.

Advarsel:
Apparatet indeholder ingen dele, der kan repareres af brugeren selv. Fjern aldrig kabinettet med mindre De er kvalificeret hertil. Apparatet indeholder farlig strømspænding. Træk altid stikket ud af stikkontakten før der foretages reparationer, eller hvis apparatet ikke er i brug i længere tid.

- Quando l'interruttore POWER si trova in posizione STAND-BY, all'interno dell'apparecchio c'è ancora la corrente.

Avvertenza:
L'apparecchio non contiene parti riparabili dall'utente. Non togliere mai i coperchi, a meno di non essere qualificati per farlo. All'interno dell'apparecchio ci sono tensioni pericolose, per cui si deve sempre staccare la spina del cavo d'alimentazione dalla presa di corrente prima di qualsiasi intervento di manutenzione e quando non si usa l'aparecchio per un lungo periodo di tempo.

- Als de POWER schakelaar in de STAND-BY stand staat, zal het toestel nog steeds een bepaalde hoeveelheid stroom van het lichtnet betrekken.

Waarschuwing
Binnenin dit toestel bevinden zich geen door de gebruiker zelf te onderhouden onderdelen. De behuizing mag alleen worden verwijderd door bevoegd onderhoudspersoneel. De door dit toestel gebruikte elektrische spanning kan bij verkeerd gebruik een gevaarlijke schok opleveren. Haal de stekker uit het stopkontakt als het toestel voor langere tijd niet wordt gebruikt of tijdens het uitvoeren van onderhoud.

- When the POWER switch is set at STAND-BY position, mains voltage is still present inside the unit.

Warning:
This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

DENNA APPARAT ÄR ANSLUTEN TILL 230 V VÄXELSTRÖM NÄR STICKPROPPEN ÄR INSKJUTEN I VÄGGUTTAGET. FÖR ATT FULLSTÄNDIGT KOPPLA IFRÅN APPARATEN, V.G. DRAG UT STICKPROPPEN.

ENGLISH

Thank you for purchasing this SHARP product.
For the best performance, read this manual carefully. It will guide you in operating your SHARP product.

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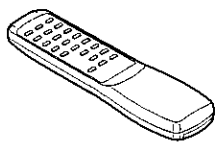
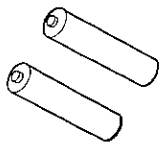
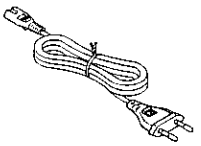
ACCESSORIES



Remote control × 1



"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2



AC power lead × 1

Note:
Parts and equipment mentioned in this operation manual other than those shown above are not included.

PRECAUTIONS

- Do not use oil, solvents, petrol, paint thinners or insecticides on the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extreme low temperatures.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.
- Hold the AC power plug by the head when removing it from the AC socket, since pulling the lead can damage internal wires.
- Remove the AC power plug from the wall socket before cleaning the heads, pinch rollers, etc.
  This unit contains dangerous voltages.
  Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.
- Use the unit on a firm, level surface free from vibration, and do not place anything on the top of the unit.
- If the unit does not work properly whilst in use, set the POWER switch to STAND-BY and then to ON again.
- If a lightning storm is taking place near you, it is suggested that you disconnect the AC power lead from the AC socket for safety.

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Condensation

Sudden temperature changes and storage or operation in an extremely humid environment may cause condensation inside the cabinet.
Condensation can cause the unit to malfunction.
Follow the procedure below to eliminate condensation.

● CD pickup

Leave the power on with no disc in the unit until normal playback is possible (about 1 hour).

● Tape head

Leave the power on with no cassette in the unit until normal playback is possible (about 1 hour).

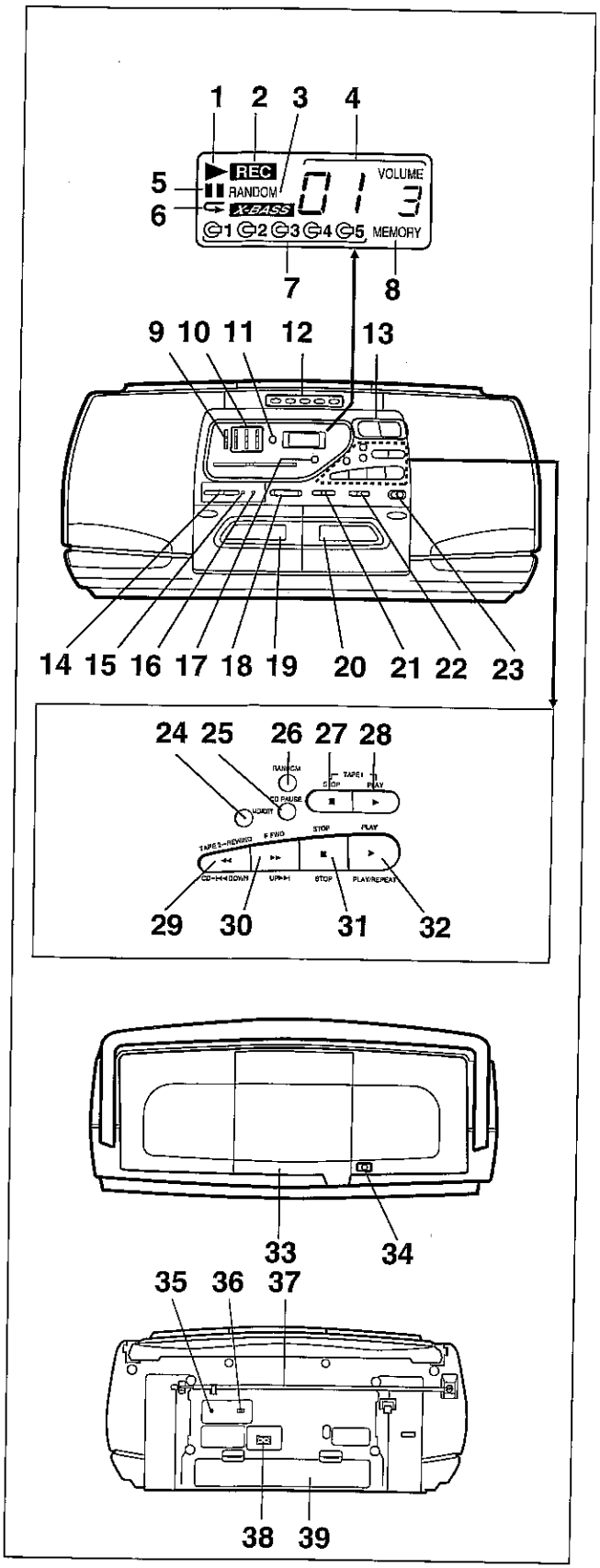
Note:
If condensation forms on the tape head, foreign matter may accumulate on it during use.

● Remote control

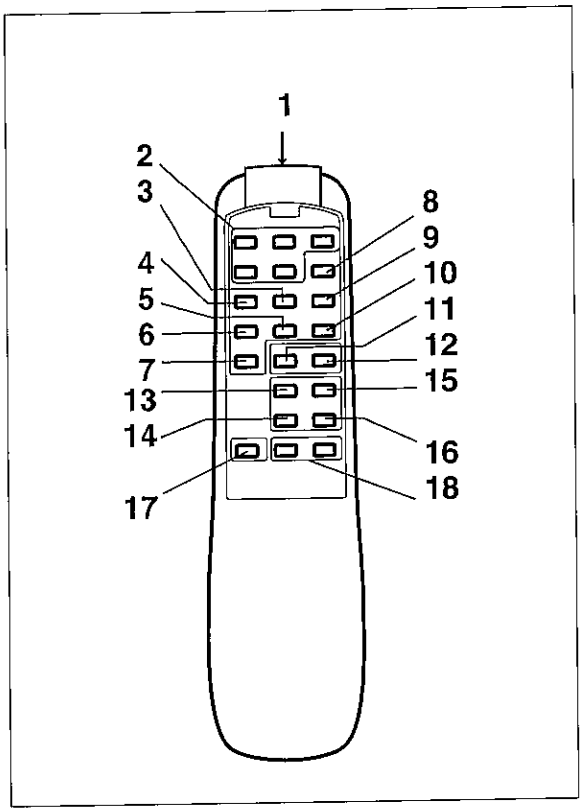
Wipe off any condensation on the transmitter LED with a soft cloth before operating the unit.

Warning:
CD players use a laser pickup which can damage the eyes if viewed directly. Do not look at the pickup, and do not touch the pickup directly.

NAMES OF CONTROLS AND INDICATORS



1. Play Indicator: ▶
2. Record Indicator: REC
3. Random Indicator
4. Track Number/Minutes and Seconds/Volume Level/Memory Number Indicator
5. Pause Indicator: ❚❚
6. Repeat Indicator: ⊂
7. Disc Number Indicators
8. Memory Indicator
9. Extra Bass Control: X-BASS
10. Graphic Equalizer Controls
11. Remote Control Sensor
12. Disc Number Selector Buttons: (⊜1 - ⊜5)
13. Volume Up/Down Buttons: ∨ / ∧
14. Band Selector Switch
15. FM Stereo Indicator
16. Remote Indicator
17. Record Start Button
18. Tuning Control
19. (TAPE 1) Cassette Compartment
20. (TAPE 2) Cassette Compartment
21. Function Selector Switch
22. Dubbing Speed/Beat Cancel Switch
23. Power Switch
24. Memory Button
25. (CD) Pause Button: ❚❚
26. Random Play Button
27. (TAPE 1) Stop Button: ■
28. (TAPE 1) Play Button: ▶
29. (CD) Track Down/Review Button: |◀◀ / ◀◀
    (TAPE 2) Rewind Button: ◀◀
30. (CD) Track Up/Cue Button: ▶▶| / ▶▶
    (TAPE 2) Fast Forward Button: ▶▶
31. (CD/TAPE 2) Stop Button: ■
32. (CD) Play/Repeat Button
    (TAPE 2) Play Button: ▶
33. CD Compartment
34. CD Eject Button: ▲
35. Headphones Socket
36. Tape Selector/Rec Beat Cancel Switch
37. FM/SW Telescopic Rod Aerial
38. AC Power Input Socket
39. Battery Compartment



■ Names of controls

1. Remote Control Transmitter LED

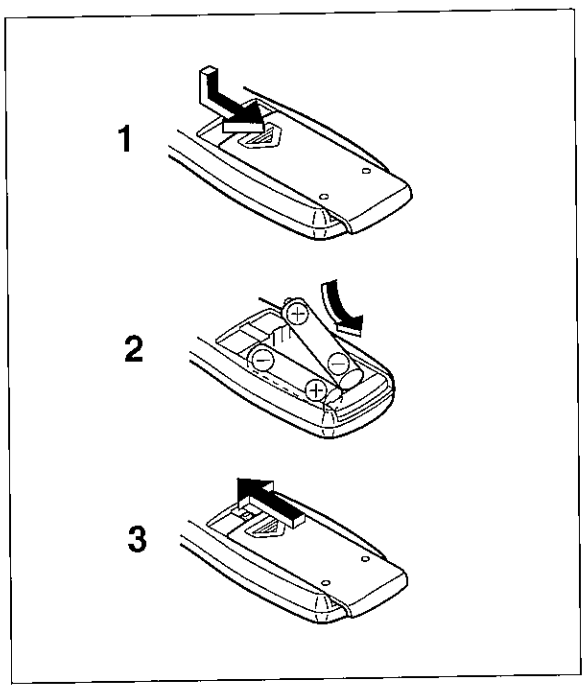
● CD control section

2. Disc Number Selector Buttons: (ⓒ1 -ⓒ5)
3. Stop Button: ■
4. Pause Button: ❚❚
5. Track Down/Review Button: ⏮ / ◀◀
6. Memory Button
7. Clear Button
8. Random Play Button
9. Play/Repeat Button: ▶ / ⊂
10. Track Up/Cue Button: ⏭ / ▶▶

● Tape control section

11. (TAPE 1) Stop Button: ■
12. (TAPE 1) Play Button: ▶
13. (TAPE 2) Stop Button: ■
14. (TAPE 2) Rewind Button: ◀◀
15. (TAPE 2) Play Button: ▶
16. (TAPE 2) Fast Forward Button: ▶▶

17. Power Button
18. Volume Up/Down Buttons: ∨ / ∧



■ Loading the batteries for the remote control

1 Remove the battery compartment cover.

2 Insert 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar) into the battery compartment.

- When inserting the batteries, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly can cause the unit to malfunction.

3 Replace the battery compartment cover.

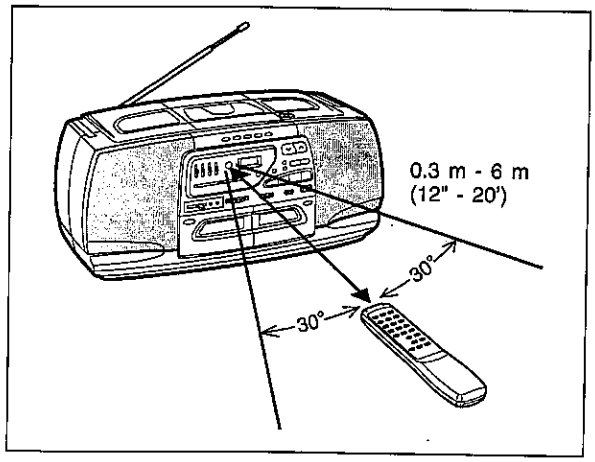
Battery removal:

- Push the batteries towards the ⊖ battery terminals to remove them.

Precautions for battery use:

- Insert the batteries according to the direction indicated in the battery compartment.
- Replace all old batteries with new ones at the same time.
- Don't mix old and new batteries.
- Remove the batteries if they are weak or if the unit is not in use for long periods to prevent potential damage due to battery leakage.

Caution:
Do not use rechargeable batteries (nickel cadmium battery, etc.).

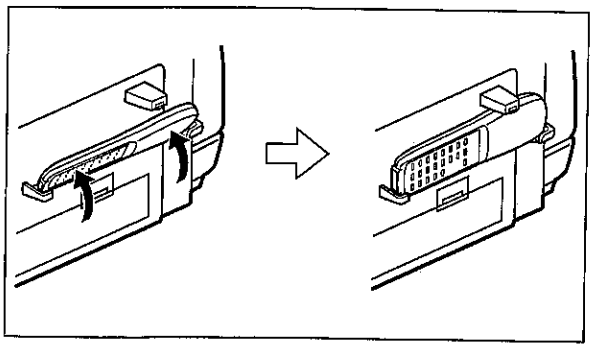


■ Proper use of the remote control

Aim the remote control at the remote control sensor within 60°, with no obstacles, and operate as shown.

Notes concerning use:

- Replace the batteries if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light can interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.
- The remote control's usable range is between 0.3 m (12") and 6 m (20') away from the sensor.



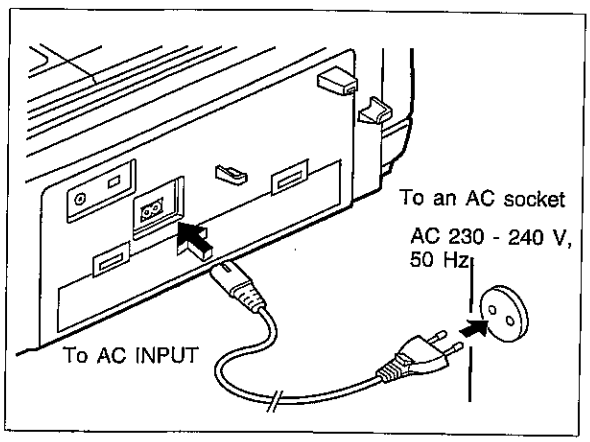
■ Storing the remote control

When the remote control is not used, it can be stored in the rear of the unit.

Cautions:

- When carrying the unit, do not bang it. The remote control may fall out and break.
- Do not try to force the remote control into the storage holder in any other position than the one shown in the drawing.

POWER SOURCE

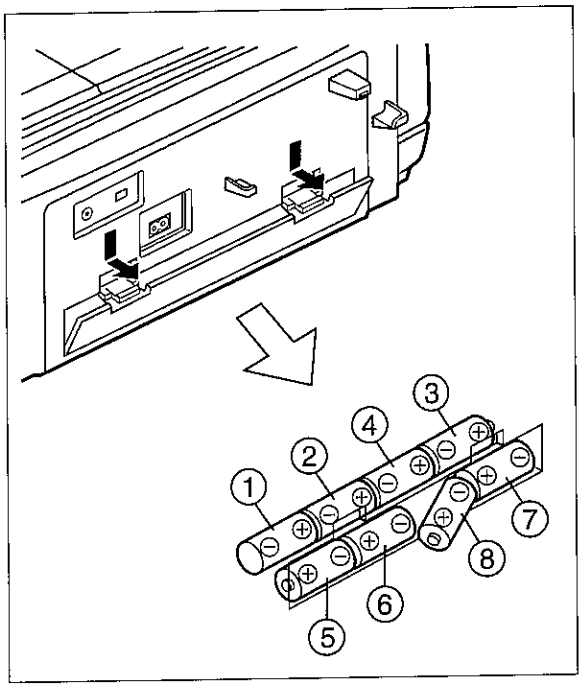


■ AC power

Connect the AC power lead to the AC power input socket, then connect the AC power lead plug to an AC socket.

Notes:

- The AC power lead is located in the battery compartment.
- If the unit will not be used for a long period of time, remove the AC power lead from the AC socket.
- Use of the AC power lead disconnects the batteries.
- Never use any power lead other than the one supplied. Otherwise, problems or an accident may occur.



Caution:

- When the POWER switch on the remote control is turned off, "– –" will appear in the LCD display. This means that the remote control operation is in the stand-by mode. At this time, electricity is still being consumed. Especially, when the unit is being operated from the batteries, be sure to turn off the POWER switch on the unit itself, to prevent the batteries from running down.

■ Battery power

1 Disconnect the AC power lead, and remove the battery compartment cover.

2 Insert 8 "D" size batteries (UM/SUM-1, R20, HP-2 or similar) into the battery compartment.

- When inserting the batteries, push them towards the ⊖ sign.
- Installing the batteries incorrectly can cause the unit to malfunction.

3 Replace the battery compartment cover.

Battery removal:

- Push batteries ④ and ⑧ towards the ⊖ sign on the batteries to remove them.

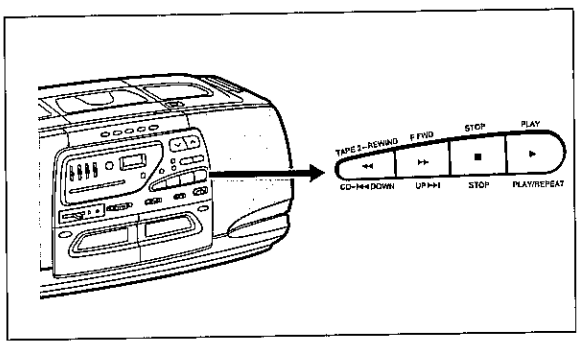
Precautions for battery use:

- Insert the batteries according to the direction indicated on the rear panel.
- Replace all old batteries with new ones at the same time.
- Don't mix old and new batteries.
- Remove the batteries if they are weak or if the unit is not in use for long periods to prevent potential damage due to battery leakage.

Caution:
Do not use rechargeable batteries (nickel cadmium battery, etc.).

Battery replacement:

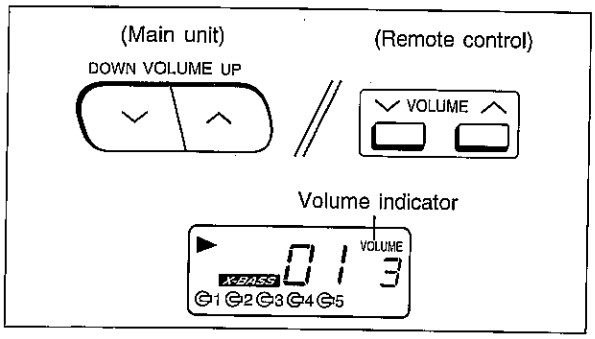
Replace the batteries when they become weak and recording or playback is impaired. This may occur even though radio broadcasts are audible.



■ Main unit operating buttons

The control buttons on the unit are used to operate both the CD and the TAPE 2.
When the FUNCTION switch is set to CD, these buttons will control the CD operation. When the FUNCTION switch is set to TAPE, these buttons will control the TAPE 2 operation.

SOUND CONTROL



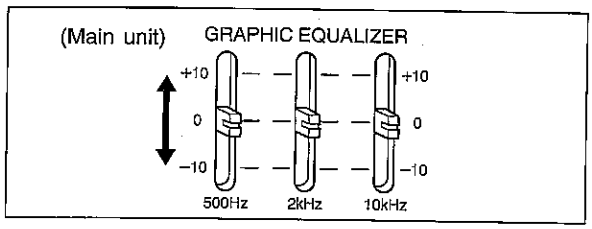
■ Volume

Main unit/remote control operation

Press the VOLUME UP / ∧ button to increase the volume and the VOLUME DOWN / ∨ button to decrease the volume.

Notes:

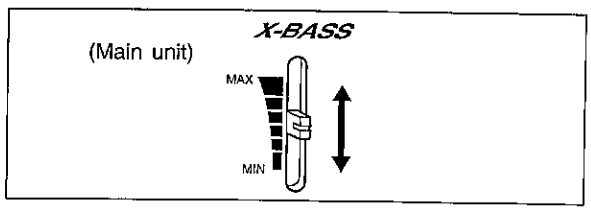
- When the power to the unit is turned off, or the power lead is unplugged after the volume has been adjusted, the volume level will be returned to "VOLUME 2". When the power is turned on again, adjust the volume.
- When the power is turned off using the remote control, the current volume level will remain unchanged.



■ Graphic equalizer

Main unit operation

Move the GRAPHIC EQUALIZER control for any frequency towards +10 to boost the level for that frequency, and towards -10 to lower the level.

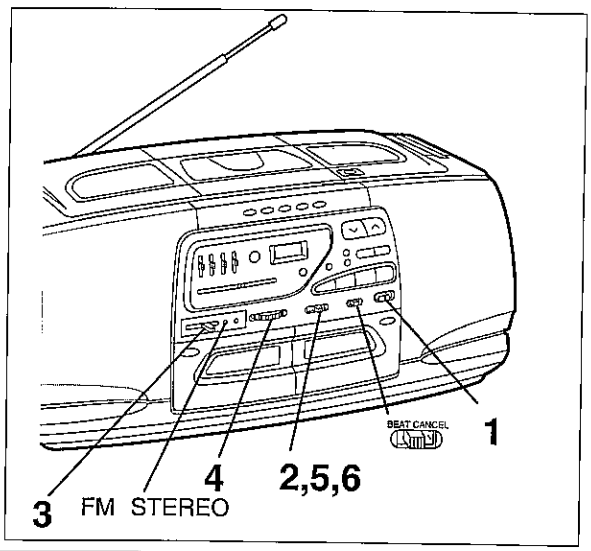


■ Extra bass (X-BASS)

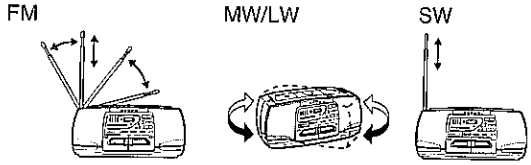
Main unit operation

Move the X-BASS control towards MAX to emphasise bass sound.
The centre position represents a normal setting.

RADIO OPERATION



Aerial adjustment



1 Set the POWER switch to ON.

2 Set the FUNCTION switch to TUNER.

3 Set the BAND switch to FM, LW, MW or SW.

4 Use the TUNING control to tune in to the desired station.

5 To receive an FM stereo transmission, set the FUNCTION switch to FM STEREO.

- The FM STEREO indicator lights up when an FM broadcast is in stereo.

6 If the FM reception is weak, set the FUNCTION switch to FM MONO.

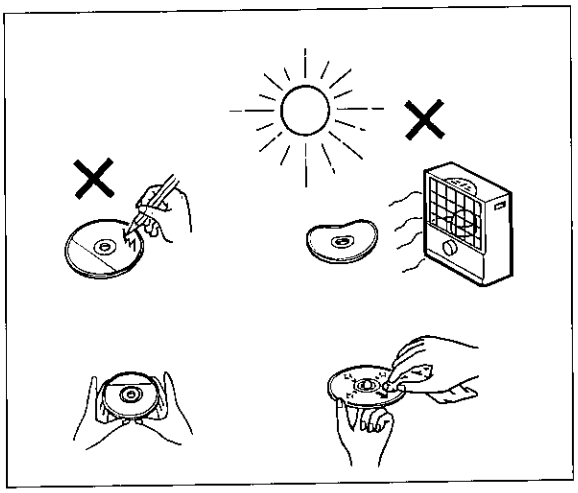
- Although the reception changes to monaural, the sound becomes clearer.

Beat cancel switch:

If a whistling noise is heard when you are listening to the radio, move the BEAT CANCEL switch to the position which gives you the best reception.

To switch the unit off after use:

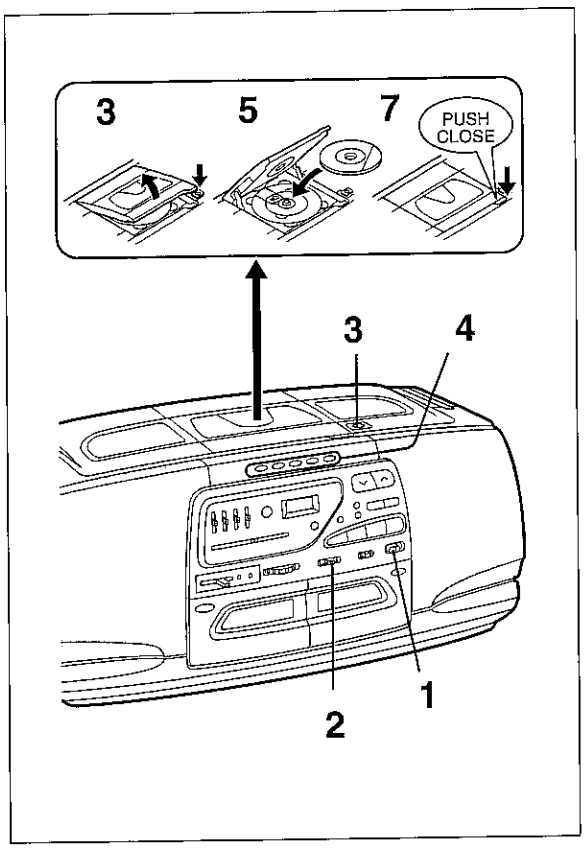
Set the POWER switch to STAND-BY.



■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface.
Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side. Signals are read from the non-label side. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



■ Loading CDs

This CD changer can have a maximum of 5 discs loaded into the disc holder.

1 Set the POWER switch to ON.

2 Set the FUNCTION switch to CD.

3 Press the CD EJECT button to open the CD compartment.

4 Press the DISC NUMBER button (⊜1 - ⊜5) for the disc position you want to load a disc in.

- The selected disc number (⊜1 - ⊜5) will flash, and the disc holder will move to the selected disc position.

Note:
- Do not attempt to stop the disc holder by hand whilst it is moving.

5 Place a compact disc on the spindle, label side up.

Note:
- Do not load or unload CDs whilst the disc holder is moving.

6 Repeat steps 4 - 5 to load the remaining CDs.

- A maximum of 5 discs can be loaded.

7 Close the CD compartment by firmly pushing the corner marked "PUSH CLOSE".

Note:
- If "Error" appears in the display whilst the disc holder is moving or whilst the CD mechanism is going up or down, set the POWER switch to STAND-BY, and then check the following points.

(1) The batteries are exhausted:

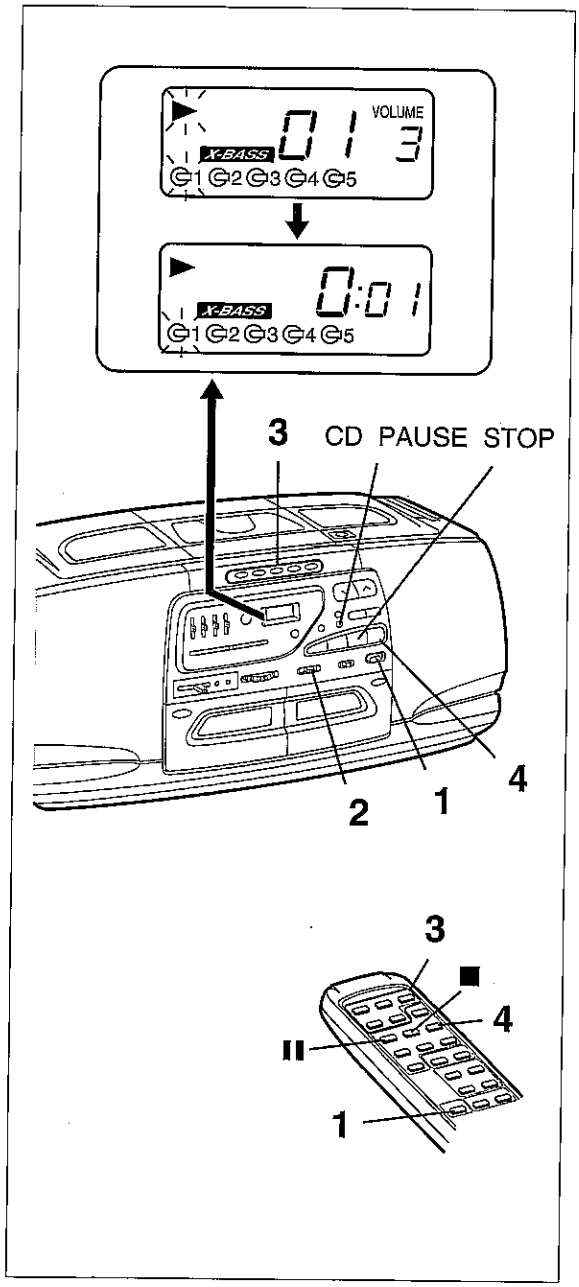
Replace all of the batteries with new ones or power the unit with AC power.

(2) Discs may be jammed inside the unit.

Load the CD properly.

If the problem is not resolved even after the above points have been checked, contact an authorised service centre.

Caution:
- When carrying the unit with a disc in the disc holder, do not tilt or shake the unit. The disc may come loose inside the unit and it may be damaged or it may damage the unit. This can cause malfunctions.



■ Playing CDs

1 Set the POWER switch to ON.

2 Set the FUNCTION switch to CD.

3 Press the desired DISC NUMBER button (⊜1 - ⊜5).

4 Press the PLAY/REPEAT (▶ / ⊂) button.

- Playback will begin from track 1 on the disc you have specified to play.
- When the VOLUME button is pressed during playback, the track number and the volume level will be displayed for two seconds.

Notes:

- Playback continues automatically until the last disc in the disc holder has been played.
- If a disc holder does not contain a disc, or contains a disc which is scratched, dirty or loaded upside down, or cannot be played back, the unit will skip that holder, and the next holder containing a disc will automatically be played back.
- Playback automatically stops after the last disc, unless the repeat or random function is selected.
- When the last track on the fifth disc has finished playing, the unit stops automatically and returns to the position of the first track on disc 1.

To interrupt playback:

Press the CD PAUSE (❚❚) button.

- "❚❚" will appear.

Press the PLAY/REPEAT (▶ / ⊂) button to resume playback from the same point.

To stop playback:

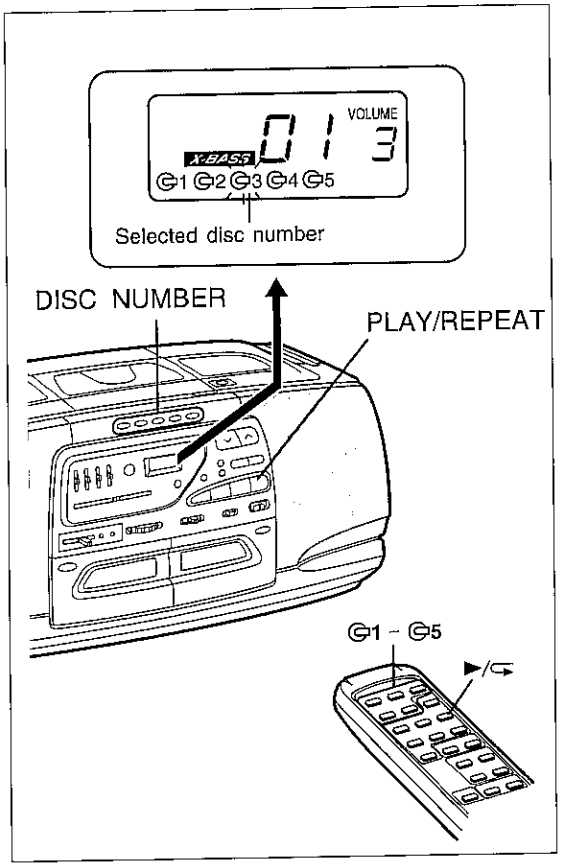
Press the STOP (■) button.

To switch the unit off after use:

Set the POWER switch to STAND-BY.

Precautions:

- If the disc holder moves slowly or it stops in the middle of the movement, the batteries are exhausted. If this happens, set the POWER switch to STAND-BY, and replace all of the batteries with new ones or power the unit with AC power.
- Put the unit on a level surface. If the unit is used on a surface that is not flat, the CD may not play back properly and discs may jam in the unit.



■ Disc number selection

CDs are automatically played from disc 1 through disc 5. However, any disc number can be selected during play or when stopped.

To select a disc number when stopped:

1 When stopped, press the desired DISC NUMBER button (1 - 5).

- The selected disc number (1 - 5) will flash, and the disc holder will move to the selected disc position.

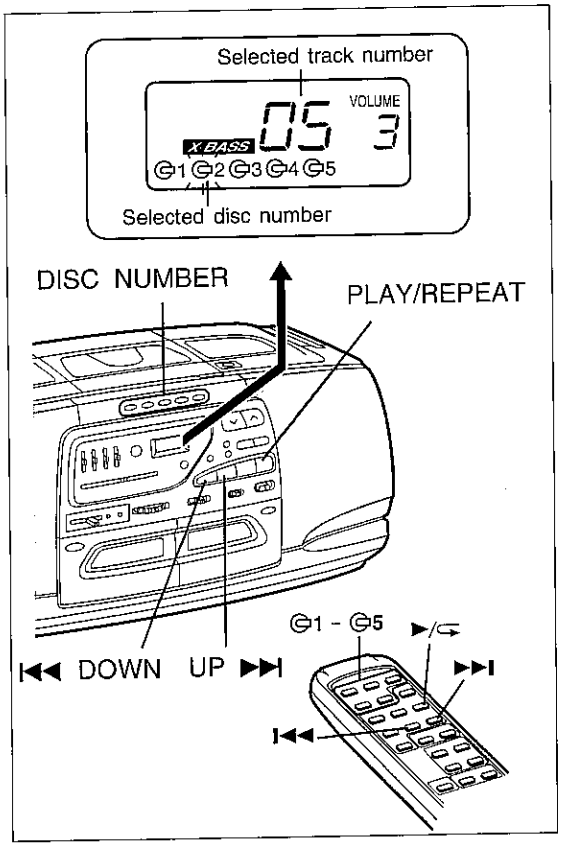
2 Press the PLAY/REPEAT (► / ⊂) button.

- The selected disc playback will begin, after which each following disc will be played sequentially.

To select a disc number during playback:

During playback, press the desired DISC NUMBER button (1 - 5).

- The selected disc number (1 -5) will flash.
- The selected disc playback will begin, after which each following disc will be played sequentially.



■ Direct-selection play

Any track can be selected and played back from any disc in the disc holder.

1 Select the disc to be played back by pressing the DISC NUMBER button (1 -5).

- The selected disc number (1 - 5) will flash, and the disc holder will move to the selected disc position.

2 Press the UP (►►I) or DOWN (I◄◄) button to select the desired track number.

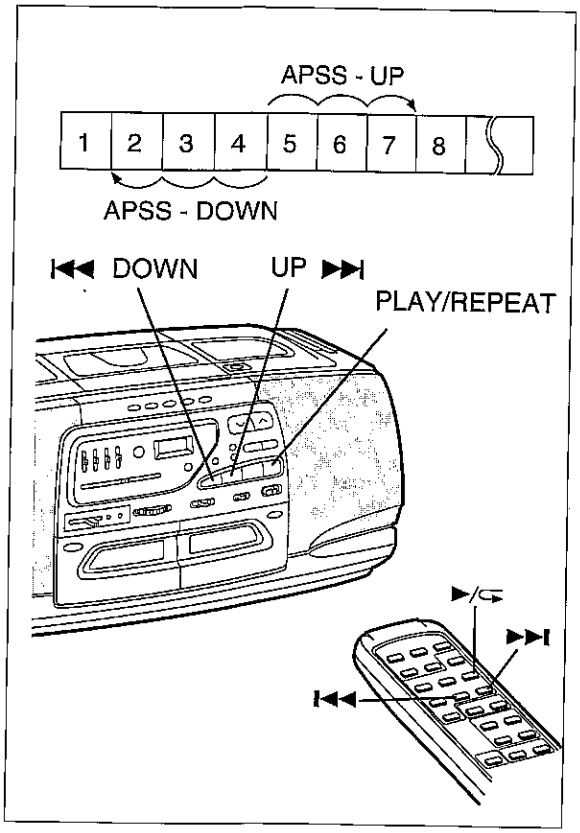
Note:

- When the UP (►►I) or DOWN (I◄◄) button is held down, the track number will change continuously.

3 Press the PLAY/REPEAT (► / ⊂) button.

Notes:

- If a disc number that is not in the disc holder is selected, playback begins from the first track on the next disc.
- Any track number from "01 - 99" can be selected for a disc that's not in the playback ... However, if the selected track numbers are n... ...on the disc, playback will start from the fi...



■ APSS (Auto Program Search System)

APSS automatically locates the beginning of any track.

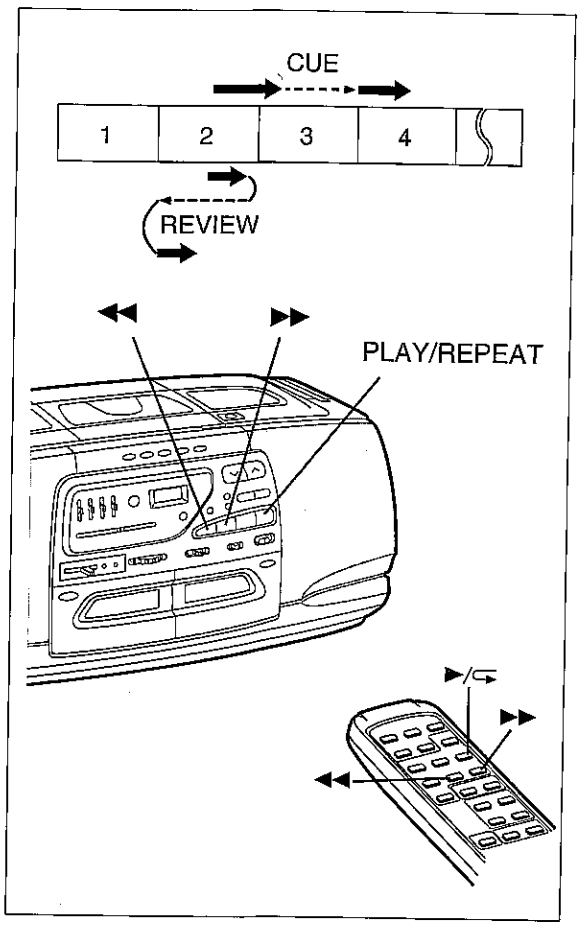
1 Load the CD(s) and press the PLAY/REPEAT (▶ / ⊂) button.

2 Press the UP (▶▶|) button for less than 0.5 seconds to move forward or the DOWN (|◀◀) button for less than 0.5 seconds to reverse through the CD.

- "▶" flashes whilst searching for the track's beginning.
- To skip a number of tracks at one time, press the DOWN (|◀◀) or UP (▶▶|) button repeatedly until the desired track number is shown.
- To start playing at a desired track, press the DOWN (|◀◀) or UP (▶▶|) button whilst in the stop mode to select the track number, and then press the PLAY/REPEAT (▶ / ⊂) button.

Notes:

- APSS will move forward or backward from any point on the disc before playback begins. It will not move forward during playback of the final track.
- APSS can only search a single disc, unless in the APMS mode.
(See page 12.)



■ Cue and review

1 Load the CD(s) and press the PLAY/REPEAT (▶ / ⊂) button.

2 To fast forward audibly, hold down the ▶▶ button for at least 0.5 seconds.
To fast reverse audibly, hold down the ◀◀ button for at least 0.5 seconds.

3 Normal playback will resume when the ▶▶ or ◀◀ button is released.

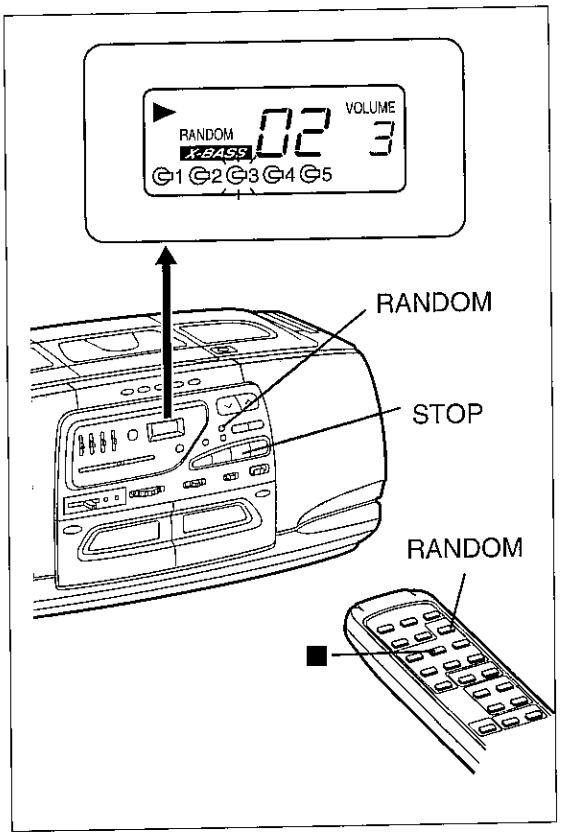
Notes:

- If the end of the disc is reached whilst cueing, "End" lights up and CD operation is paused. Press the ◀◀ button for fast reverse or press the STOP (■) button to stop CD operation.
- If the beginning of the track is reached whilst reviewing, the mode will automatically switch to normal playback at that point.

To search very quickly:

When the ▶▶ or ◀◀ button is held down for at least 0.5 seconds whilst in the pause mode, the search will be performed more quickly than during audible fast forward or fast reverse playback.

- In this mode, no sound is heard. Therefore, you should refer to the time display.
- When you lift your finger, the unit will re-enter the pause mode.



■ Random play

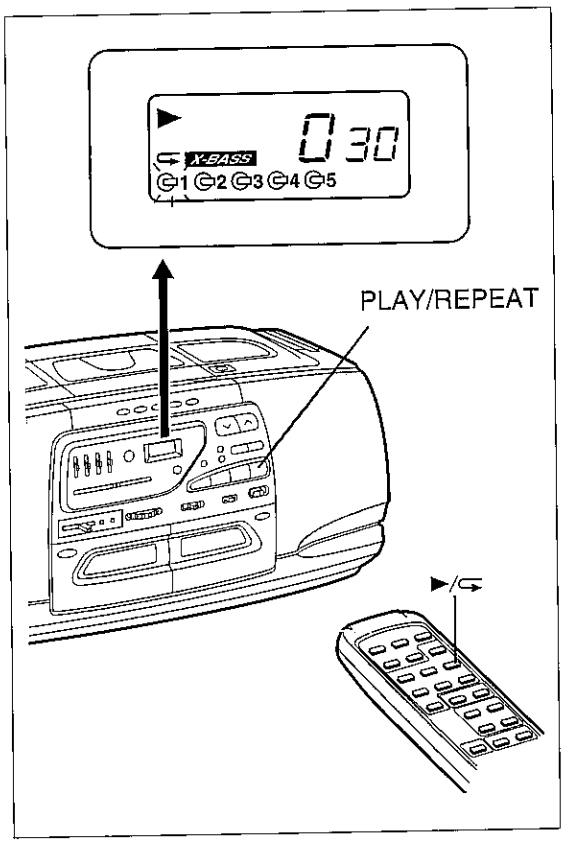
The tracks on the discs in the disc holder can automatically be played in random order.

Press the RANDOM button.
- "RANDOM" will appear, and random play will automatically begin.

To stop random play:
Press the STOP (■) button.
- "RANDOM" will go out.

Caution:
Random play will continue until the STOP (■) button is pressed.

Note:
- If the RANDOM button is pressed whilst a programmed sequence is being stored in memory, the random play function will not work.



■ Repeat play

All of the tracks on the discs in the disc holder, or a programmed sequence can be continuously repeated.

To repeat all the tracks on the discs in the disc holder:

1 Press the PLAY/REPEAT (► / ⊂) button twice.
- "⊂" will appear.

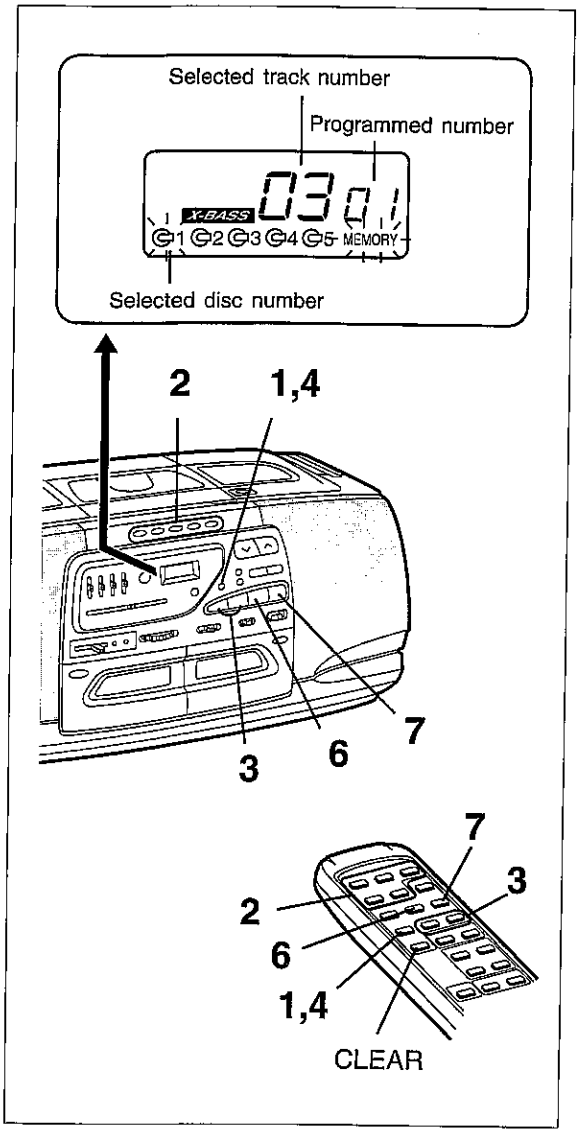
To repeat a programmed sequence:

1 Programme a sequence of up to 32 tracks. (See page 12.)
- "MEMORY" will appear.

2 Press the PLAY/REPEAT (► / ⊂) button twice.
- "⊂" will appear.

To cancel repeat play:
Press the PLAY/REPEAT (► / ⊂) button again.
- "⊂" will go out.

Notes:
- When the RANDOM button is pressed during repeat play, repeat play will be cancelled, and random play will begin.
- If the PLAY/REPEAT (► / ⊂) button is pressed during random play, repeat play will not be activated.



■ APMS (Automatic Programmable Music Selector)

You can play the tracks on the discs in the disc holder in any order desired. By specifying the disc numbers from 1 to 5, and the track numbers from 1 to 99, you can choose up to 32 selections for playback in the order you like.

1 Whilst in the stop mode, press the MEMORY button to place the unit in the programme mode.

- "MEMORY" will flash to show that the unit is in the programme mode.

2 Press the DISC NUMBER button (⊜1 - ⊜5) to select the desired disc number.

3 Press the UP (▶▶|) button to select the desired track forward, and the DOWN (|◀◀) button to select the desired track backward.

4 Press the MEMORY button again.

- The programmed number will appear in the display to show that a programmed sequence is being stored in memory.

5 Repeat steps 2 - 4 for any other track. Up to 32 tracks can be programmed.

Note:

- If 32 tracks have already been programmed and the MEMORY button is pressed, "End" will appear and the unit will refuse further programme operations.

6 Whilst in the programme mode, press the STOP (■) button to exit the programme mode.

- "MEMORY" will appear to show that a programme is being entered.

Note:

- Whilst in the programme mode, if none of the buttons are pressed for about 30 seconds, the programme mode will be cancelled automatically.

7 Press the PLAY/REPEAT (▶ / ⊂) button to start playback of programmed selections.

To clear all the programmed selections:

Open the CD compartment.

To cancel tracks one by one:

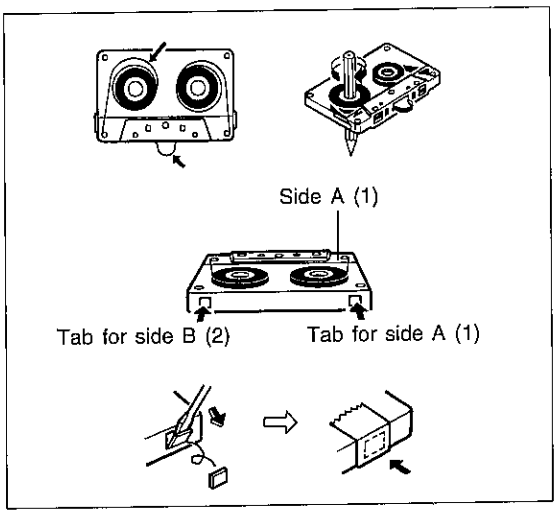
Press the CLEAR button on the remote control.

Notes:

- Even when the CD compartment is open, programme settings can be entered.
- Programming is not possible during playback or when paused.

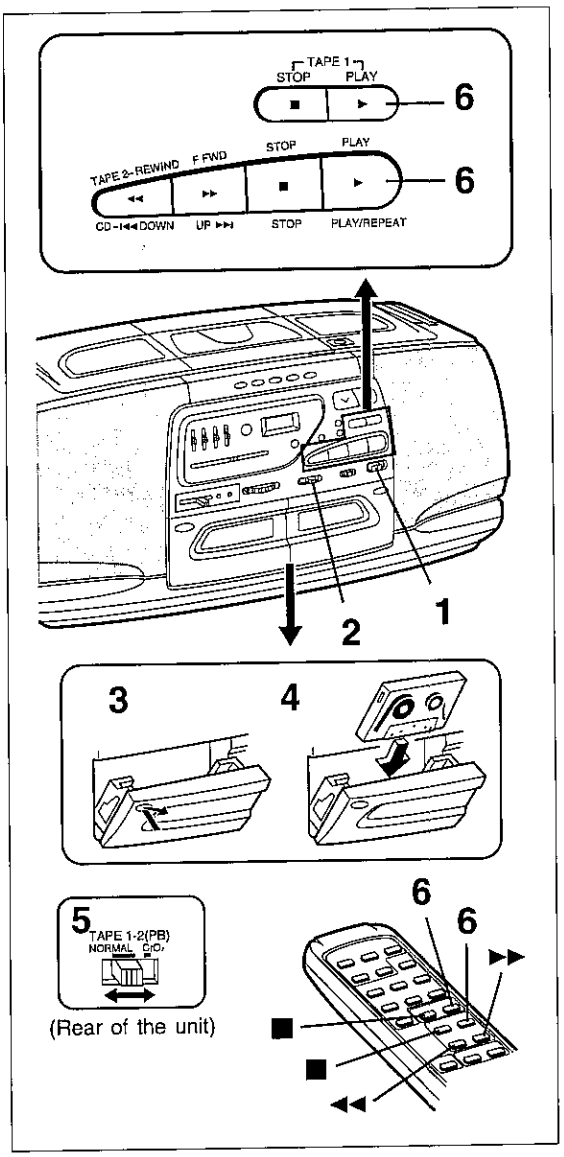
Precautions for CD operation:

- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- Subjecting the unit to shock or vibration can cause mistracking.
- Do not open the CD compartment whilst the disc is rotating.
- Keep foreign objects out of the CD compartment.
- Playing some compact discs at a high volume can cause mistracking. In this case, listen at a lower volume.
- The temperature range for playing compact discs is recommended to be 5°C (41°F) - 35°C (95°F).
- Keep the CD compartment closed except when loading discs.



■ General information

- For playback, use normal (low-noise), CrO_2 or metal tape for the best sound. For recording, use only normal tape.
- Do not use C-120 tapes, tapes with large diameter reels, or poor-quality tapes, since they can cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or pencil.
- Cassettes have removable tabs which prevent accidental recording or erasing from taking place. Removing the tab will protect the corresponding side from being erased. Cover the tab holes with adhesive tape to erase or record again.
- TAPE 1: Playback only.
  TAPE 2: Playback or recording.



■ TAPE 1 or TAPE 2 playback

1 Set the POWER switch to ON.

2 Set the FUNCTION switch to TAPE.

3 Open the cassette door by pushing the area marked "PUSH EJECT".

4 Load the cassette into the TAPE 1 or TAPE 2 cassette compartment.

5 Set the TAPE1-2(PB) switch to the required position.

- Set the selector to CrO_2 for CrO_2/metal tape and to NORMAL for normal tape.

6 Press the PLAY (►) button of TAPE 1 or TAPE 2 to start playback.

To stop playback:

Press the STOP (■) button.

Precautions:

- When removing the cassette tape, press the STOP (■) button, and then open the cassette compartment.
- When the end of the tape is reached whilst the unit is operating in the recording, playback, fast forward or rewind mode, the full auto stop system is activated and automatically puts the unit into the stop mode.
- If a power failure occurs during tape operation or the batteries run down, the tape head will remain engaged with the tape. Then, even when the "PUSH EJECT" section is pressed, the cassette door will not open. In this case, wait until power restored or replace the batteries with new ones.

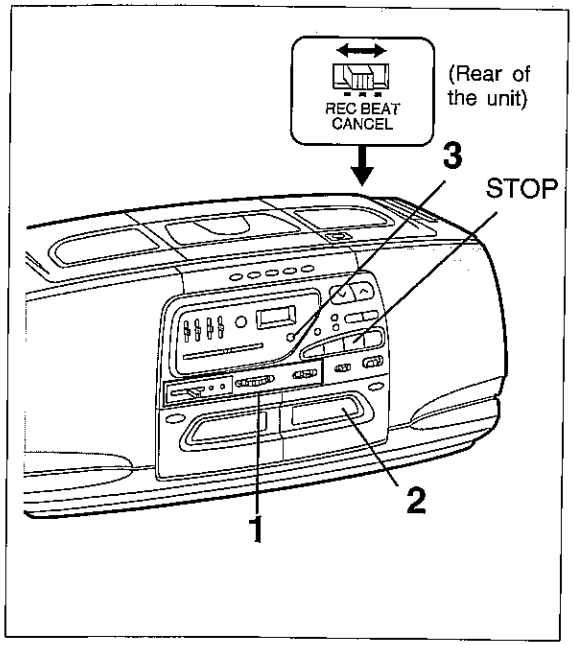
Fast forward/rewind: (TAPE 2 only)

To advance the tape, press the STOP (■) button, then press the F FWD (►►) button. To rewind, press the STOP (■) button, then press the REWIND (◄◄) button.

To switch the unit off after use:

Set the POWER switch to STAND-BY.

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The ALC (Automatic Record Level Control) circuit automatically controls the level of the input signal used for recording.
- The VOLUME, X-BASS and GRAPHIC EQUALIZER controls may be adjusted with no effect on the recorded signal. (Variable Sound Monitor)
- Metal and CrO_2 tapes should not be used for recording or dubbing.
- The TAPE1-2(PB) switch functions only during playback, so only normal or low-noise tapes can be used for recording.
- To erase a recorded tape, set the FUNCTION switch to TAPE and press the REC START button. (Make sure that TAPE 1 is not being used.)



■ Recording from the built-in radio

1 Tune in to the desired station. (See page 6.)

2 Load a cassette into the TAPE 2 cassette compartment.

3 Press the REC START button.

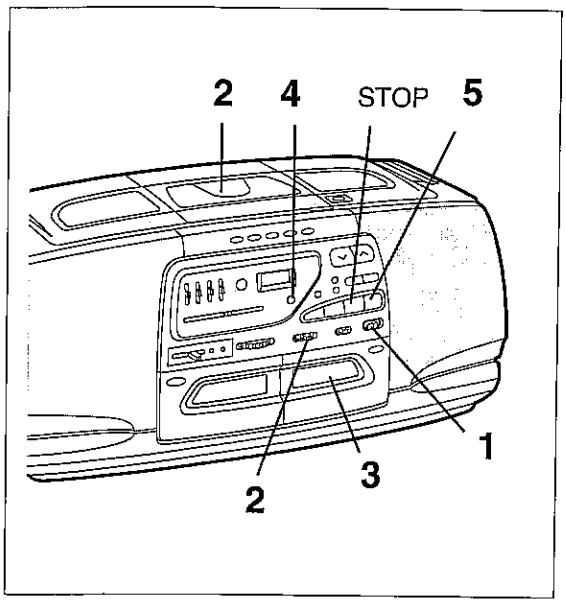
- "▶" and "REC" will appear.

Rec Beat Cancel Switch (on the rear of the unit):

If a whistling noise is heard when recording from LW, MW or SW, move the REC BEAT CANCEL switch to the position which gives you the best reception.

To stop recording:

Press the STOP (■) button of TAPE 2.



■ Recording from the built-in CD player (CD Synchronised Recording System)

1 Set the POWER switch to ON.

2 Set the FUNCTION switch to CD and load a disc.

- Use the APMS function to store the tracks you want to record in memory. (See page 12.)

3 Load a cassette into the TAPE 2 cassette compartment.

4 Press the REC START button.

- "REC" will flash.

5 Within 30 seconds, press the PLAY/REPEAT (▶ / ⊂) button.

- "▶" and "REC" will appear.
- Recording begins automatically.

To stop recording:

Press the STOP (■) button on the unit or the CD ■ button on the remote control.

- When the TAPE 2 ■ button on the remote control is pressed, only the tape will stop. The CD will continue playback.

Notes:

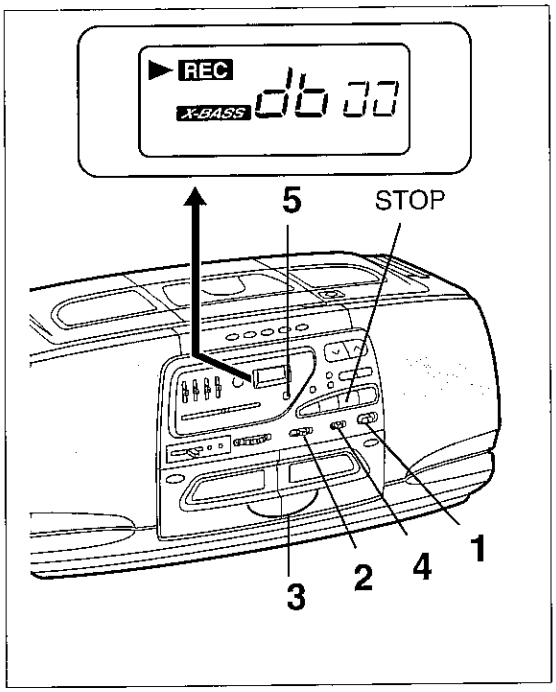
- When the end of the tape is reached whilst the unit is recording, the CD will continue playback.
- When the CD player spends more than several seconds searching for a track, the tape will stop automatically and resume recording when the beginning of the next track is found.

● To record from random play

1 Prepare to record.
(See page 14 and perform steps 1 - 3.)

- When tracks are stored in memory using the APMS function, random recording will not be possible.

2 Press the REC START button, then the RANDOM button.



■ Dubbing from tape to tape

1 Set the POWER switch to ON.

2 Set the FUNCTION switch to TAPE.

3 Load a prerecorded cassette into the TAPE 1 cassette compartment. Insert a blank tape into the TAPE 2 cassette compartment.

- It is recommended that the recording tape be the same length as the master tape.

4 Set the DUBBING SPEED switch to NORMAL for normal-speed dubbing, HIGH for high-speed dubbing.

5 Press the REC START button.

- Dubbing from TAPE 1 to TAPE 2 will begin.

To stop dubbing:

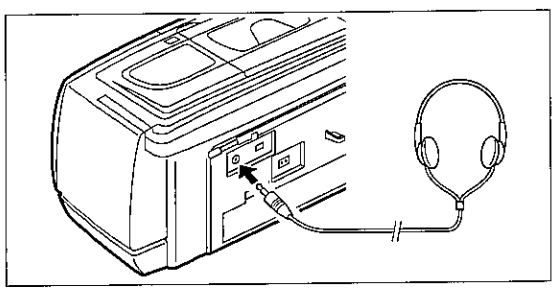
Press the STOP (■) button.

- TAPE 1 and TAPE 2 simultaneously stop.

Note:

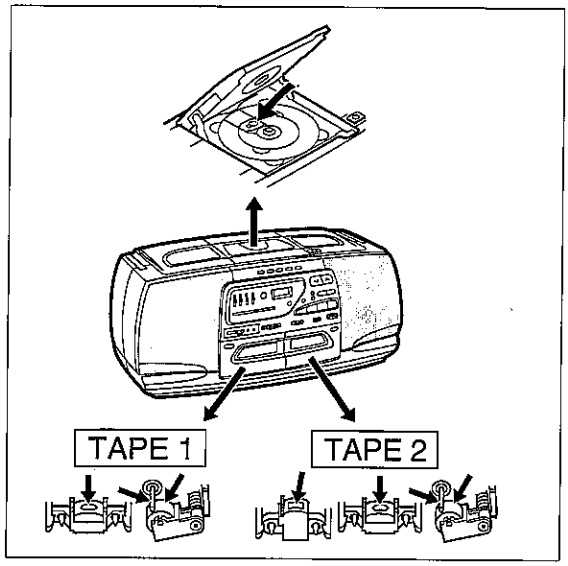
- Do not change the setting of the DUBBING SPEED switch during dubbing.

HEADPHONES



- Be sure that your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Connect the headphones plug to the PHONES socket. The speakers will be automatically disconnected. Adjust the volume by using the VOLUME control.

MAINTENANCE



■ Internal care

- Do not touch the pickup. If fingerprints or dust accumulate on the pickup, clean it gently with a dry cotton swab.
- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ External care

- Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then wipe with a dry cloth.
- Do not use chemically treated cleaning cloths or other chemicals.

SPECIFICATIONS

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

● General

Power source:	AC 230 - 240 V, 50 Hz DC 12 V ["D" size (UM/SUM-1, R20 or HP-2) battery × 8]
Power consumption:	33 W
Output power:	PMPO; 28 W (total) MPO; 9.6 W (4.8 W + 4.8 W) (AC operation, DIN 45 324) RMS; 7 W (3.5 W + 3.5 W) (AC operation, DIN 45 324)
Speakers:	10 cm (4") woofer × 2 Tweeter × 2
Output terminals:	Headphones; 16 - 50 ohms (recommended; 32 ohms)
Dimensions:	Width; 540 mm (21-1/4") Height; 250 mm (9-7/8") Depth; 236 mm (9-5/16")
Weight:	5.9 kg (13.0 lbs.) without batteries

● Radio

Frequency range:	FM; 87.5 - 108 MHz LW; 148.5 - 283.5 kHz MW; 526.5 - 1,606.5 kHz SW; 5.95 - 18 MHz

● Tape recorder

Frequency response:	50 - 14,000 Hz (Normal tape)
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.3 % (DIN 45 511)
Motor:	DC 12 V electric governor
Bias system:	AC bias
Erase system:	AC erase

● Compact disc player

Disc:	Compact disc
Signal readout:	Non-contact, 3-beam semiconductor laser pickup
Audio channels:	2
D/A converter:	1-bit D/A converter
Decoder:	16-bit linear quantization
Filter:	8-times oversampling digital filter
Wow and flutter:	Unmeasurable (less than 0.001% W. peak)

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